

A B S T R A C T

A route control server (1) sends destination information acquired by a router (2) in a managed area and transfer management information corresponding to the destination information to another route control server 5 and determines the output interface of a packet on the basis of the destination information and transfer management information.

A packet transfer apparatus (3) executes mutual conversion and transfer of an upper layer packet 10 on a user terminal side and a lower layer frame on an optical wavelength path side. An admission control server (4) sets, of the optical wavelength paths of the photonic network, an optical wavelength path formed from a cut-through optical wavelength path which has a 15 guaranteed band and directly connects packet transfer apparatuses of transmission source and destination in accordance with an optical wavelength path connection request from a transmission source user terminal.

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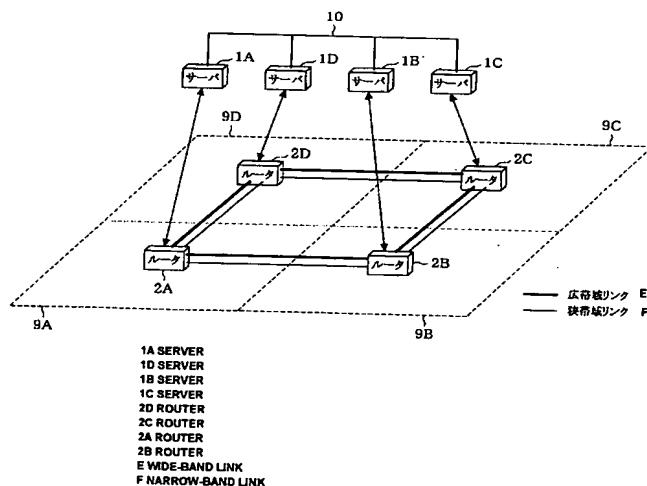
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(54) Title: PACKET COMMUNICATION NETWORK, ROUTE CONTROL SERVER, ROUTE CONTROL METHOD, PACKET TRANSMISSION DEVICE, ADMISSION CONTROL SERVER, LIGHT WAVELENGTH PATH SETTING METHOD, PROGRAM, AND RECORDING MEDIUM

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(57) Abstract: A route control server (1) reports the destination information acquired by a router (2) of the management area and transmission management information corresponding to the destination information to another route control server and decides the output interface of the packet according to the destination information and the transmission management information. Moreover, a packet transmission device (3) subjects the upper node layer packet of the user terminal side and the lower node layer frame of the light wavelength path side to mutual conversion processing and transmits them. According to a light wavelength path connection request from the transmission source user terminal, an admission control server (4) sets a light wavelength path composed of a cut through light wavelength path band-guaranteed and directly connecting the packet transmission devices (3) as the transmission source and as the destination among the light wavelength paths of the photonic network (8A).

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